kibb03b_pretm.tif
 Pre-Fire Landsat reflectance data subset, scaled by 400 and co
7 Geo-Tiff format)

kibb03b_postm.tif
 Post-Fire Landsat reflectance data subset, scaled by 400 and co
7 Geo-Tiff format)

kibb03b_dnbr
 Differenced Normalized Burn Ratio (DNBR) subset (ArcInfo Grid)

kibb03b_pr
 Fire perimeter updated by hand digitzing DNBR(shape file)

Time_Period_of_Content:
 Time_Period_Information:
 Multiple_Dates/Times:
 Single_Date/Time:
 Calendar_Date: July 12, 2003 (pre-fire image)
 Single_Date/Time:
 Calendar_Date: July 29, 2003 (date fire began)

Single_Date/Time:

```
Calendar_Date: July 30, 2004 (post-fire image)
    Currentness_Reference: ground condition
    Progress: Evaluation of methods in process
   Maintenance_and_Update_Frequency: As needed
  Keywords:
   Theme:
      Theme Keyword Thesaurus: none
      Theme Keyword: Wildland Fire
      Theme_Keyword: Normalized Burn Ration (NBR)
      Theme_Keyword: Fire Severity
      Theme_Keyword: USDA Forest Service
      Theme_Keyword: Landsat
   Place:
      Place_Keyword_Thesaurus: none
      Place Keyword: Yosemite National Park
      Place_Keyword: California
      Place Keyword: Kibbie Complex
  Access Constraints: FTP data sets are available to any user.
  Use_Constraints: There are no restrictions on use, except for reasonable and proper
acknowledgement of information sources.
  Data_Set_Credit: USDA Forest Service
  Native_Data_Set_Environment: ERDAS Imagine, ARCInfo
Data_Quality_Information:
  Positional Accuracy:
    Horizontal_Positional_Accuracy:
      Horizontal_Positional_Accuracy_Report: These data were terrain corrected using a USGS
digital elevation model with less than 1/2 pixel RMS error.
  Lineage:
   Process_Step:
      Process Description:
        These data products are derived from Landsat Thematic Mapper data. A pre-fire scene and a
post-fire scene are analyzed to create a Differenced Normalized Burn Ratio (DNBR) image. The DNBR
image portrays the variation of burn severity within the fire.
        The pre- and post-fire Landsat images are terrain corrected and geometrically rectified to
the UTM projection. The images are further processed to convert bands 1-5 and 7 to at-sensor-
reflectance. The Normalized Burn Ratio (NBR) is computed for each date of imagery using the
following formula:
        (Band 4 - Band 7) / (Band 4 + Band 7) = NBR
        The differenced NBR is computed by subtracting the post-fire NBR from the pre-fire NBR:
        PreNBR - PostNBR = DNBR
        Higher DNBR values are correlated with more severe burns. The DNBR image is evaluated to
determine the threshold value between burned and unburned areas. The perimeter of the fire is
delineated using the DNBR image. The DNBR image, the pre-fire and post-fire TM images, and fire
perimeter vector file are provided in digital format.
Spatial_Data_Organization_Information:
  Direct Spatial Reference Method: Raster
  Raster_Object_Information:
   Row_Count: 436
   Column Count: 350
   Vertical Count: 1
Spatial_Reference_Information:
  Horizontal_Coordinate_System_Definition:
    Planar:
      Grid_Coordinate_System:
        Grid Coordinate System Name: Universal Transverse Mercator
        Universal_Transverse_Mercator:
```

UTM Zone Number: 11 Planar_Coordinate_Information: Planar_Coordinate_Encoding_Method: row and column Coordinate_Representation: Abscissa_Resolution: 30.000000 Ordinate_Resolution: 30.000000 Planar_Distance_Units: meters Geodetic_Model: Horizontal_Datum_Name: North American Datum of 1927 Ellipsoid Name: Clarke 1866 Semi-major_Axis: 6378206.400000 Denominator_of_Flattening_Ratio: 294.978698 Distribution_Information: Resource_Description: Downloadable Data Metadata_Reference_Information: Metadata_Date: February 2005 Metadata_Contact: Contact_Information: Contact_Organization_Primary: Contact_Organization: USDA Forest Service, Region 5, Fire, Fuels and Aviation Mgmt. Contact_Person: Fire and Fuels Remote Sensing Specialist Contact_Address: Address_Type: 3237 Peacekeeper Way, Bldg. 200 City: McClellan State_or_Province: California Postal Code: 95652 Contact_Voice_Telephone: 916-640-1000